

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
STANDARD ANNULAR PRESSURE TEST

Operator ANR Pipeline Company

State Permit No. 21136

Address 11039 150th Avenue

USEPA Permit No. MI-133-2D-0013

Big Rapids, Michigan 49307

Date of Test 05-16-13

Well Name Andersen 1

Well Type Brine Disposal

LOCATION INFORMATION

N/2

Quarter of the NE

Quarter of the SW

Quarter

of Section 08; Range T17R-R10W; Township Richmond; County Osecola;

Company Representative Randy Rice; Field Inspector None;

Type of Pressure Gauge Z-1 Probe #9726 inch face; 6000# psi full scale; .00001 psi increments;

New Gauge? Yes ☐ No ☒ If no, date of calibration _____ Calibration certification submitted? Yes ☐ No ☒

TEST RESULTS

Readings must be taken at least every 10 minutes for a minimum of 30 minutes for Class II, III and V wells and 60 minutes for Class I wells.

For Class II wells, annulus pressure should be at least 300 psig. For Class I wells, annulus pressure should be the greater of 300 psig or 100 psi above maximum permitted injection pressure.

Original chart recordings must be submitted with this form.

5-year or annual test on time? Yes ☐ No ☒

2-year test for TA'd wells on time? Yes ☐ No ☒

After rework? Yes ☒ No ☐

Newly permitted well? Yes ☐ No ☒

Pressure (in psig)

Time	Annulus	Tubing
Start of test	322.95844	0
5 minutes	321.24698	0
10 minutes	320.70889	0
15 minutes	320.29266	0
20 minutes	319.50797	0
25 minutes	319.50797	0
30 minutes (final)	319.14102	0

Casing size 5-1/2"

Tubing size 2-3/8"

Packer type Baker Retrieval-D

Packer set @ 3567.5'

Top of Permitted Injection Zone 3614'

Is packer 100 ft or less above top of

Injection Zone ? Yes ☒ No ☐

If not, please submit a justification.

Fluid return (gal.) 4 gallons

Comments:

Test Pressures: Max. Allowable Pressure Change: Initial test pressure x 0.03 9.68875 psi
Test Period Pressure change 3.81742 psi

Test Passed ☒ Test Failed ☐

If failed test, well must be shut in, no injection can occur, and USEPA must be contacted within 24 hours. Corrective action needs to occur, the well retested, and written authorization received before injection can recommence.

I certify under penalty of law that this document and all attachments are, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. (See 40 CFR 144.32(d))

Randy A. Rice

Printed Name of Company Representative

Randy A. Rice
Signature of Company Representative

5/16/2013
Date



By authority of Part 615 or Part 625 of
Act 451 PA 1994, as amended.
Non-submission and/or falsification of this information
may result in fines and/or imprisonment.

TEST DATA

UIC BRANCH
EPA REGION 5

Certification if witnessed by DEQ representative:

Date _____

Signature **Randy A. Rice**

Date 05/16/2013

MAIL TO: OFFICE OF OIL, GAS, AND MINERALS
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY